

Docket No. 08CS5966-2

Amendments to the Claims

1. (Canceled)

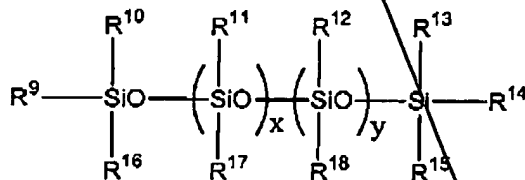
2. (Canceled)

3. (Currently amended) An anti-fog coating composition comprising a silicone compound free from a sulfonic acid functional group; a water dispersible polyurethane compound; and an aqueous solvent, wherein the silicone compound is of the formula:



wherein the subscripts a, c, d, e, f, and g are zero or a positive integer, subject to the limitation that the sum of the subscripts b, d, and f is one or greater; M has the formula:  $R^1_3 SiO_{1/2}$ , wherein each  $R^1$  is independently a monovalent hydrocarbon radical having from one to forty carbon atoms;  $M'$  has the formula:  $R^2_{3-h} R^3_h SiO_{1/2}$ , wherein each  $R^2$  and  $R^3$  are independently monovalent hydrocarbon radicals having from one to forty carbon atoms, and the subscript h is 1, 2, or 3; D has the formula:  $R^4_2 SiO_{2/2}$ , wherein each  $R^4$  is independently a monovalent hydrocarbon radical having from one to forty carbon atoms;  $D'$  has the formula:  $R^5_{2-i} R^6_i SiO_{2/2}$ , wherein each of  $R^5$  and  $R^6$  is independently a monovalent hydrocarbon radical having from one to forty carbon atoms, and the subscript i is 1 or 2; T has the formula:  $R^7 SiO_{3/2}$ , wherein each  $R^7$  is a monovalent hydrocarbon radical having from one to forty carbon atoms;  $T'$  has the formula:  $R^8 SiO_{3/2}$ , wherein  $R^8$  is a monovalent hydrocarbon radical having from one to forty carbon atoms; and Q has the formula:  $SiO_{4/2}$ ,

or an ionic or nonionic siloxane ~~alkoxide~~ alkoxylate of the formula:



wherein each of  $R^9$  through  $R^{17}$  are independently a monovalent hydrocarbon radical, and  $R^{18}$  is  $R^{19}-Z-(C_m H_{(2m-1)}) R^{20} O)_j (C_n H_{2n} O)_k R^{21}$ , wherein m and n are integers greater than or equal to 0; j and k are integers greater than or equal to 0, subject to the proviso that the sum

Docket No. 08CS5966-2

Sub  
C1

of j + k is greater than or equal to 1; Z is H-, -O-, -S-, -SH-, -CO-, -NH-, or -NH<sub>2</sub>-; R<sup>19</sup> is a divalent hydrocarbylene radical, R<sup>20</sup> and R<sup>21</sup> are independently hydrogen, alkyl, hydroxyalkyl, amino, amide, amineoxide, cyano, isocyano, aryl, arylene, carboxy, alkoxy, halogen, haloalkyl, ~~haloalkoxy~~ haloalkoxy, sulfo, sulfamo, phosphono, salts thereof, or a combination comprising at least one of the foregoing moieties, and wherein x and y are integers greater than or equal to 0, subject to the proviso that x + y is greater than or equal to 1.

4. (Canceled)

B2  
contd

5. (Previously Amended) The coating composition according to Claim 3, further comprising an additive, wherein the additive is a UV absorber, an antistatic agent, pigments, photosensitizing agents, fillers, dyes, fungicidal, bactericidal and anti-microbial agents, particulates which control the friction or surface contact areas, defoamers, buffers to control pH of the coating compositions, corrosion inhibitors, or a combination comprising at least one of the foregoing additives.

6. (Previously amended) The coating composition according to Claim 3, further comprising a co-solvent, wherein the co-solvent is N-methyl pyrrolidone, glycol ether, isopropanol, or a combination comprising at least one of the foregoing co-solvents.

7. (Previously amended) The coating composition according to Claim 3, wherein the silicone compound is chemically bound to the polyurethane compound.

8. (Previously amended) The coating composition according to Claim 6, wherein the co-solvent present in the coating composition is about 5 to about 10 parts by weight based on the total weight of the coating composition.

9. to 17. (Canceled)

18. (Currently amended) A glass or plastic article having an anti-fogging surface comprising:

a glass or plastic substrate; and

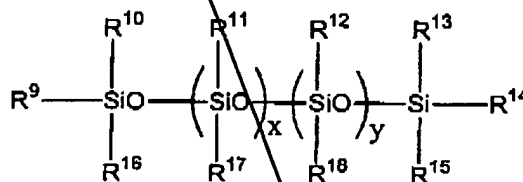
Docket No. 08CS5966-2

an anti-fog coating disposed on at least one surface of the substrate, the anti-fog coating comprising a silicone compound free of a sulfonic acid function group; a water dispersible polyurethane compound; and water, wherein the silicone compound is of the formula:



wherein the subscripts a, c, d, e, f, and g are zero or a positive integer, subject to the limitation that the sum of the subscripts b, d, and f is one or greater; M has the formula:  $R^1_3 SiO_{1/2}$ , wherein each  $R^1$  is independently a monovalent hydrocarbon radical having from one to forty carbon atoms; M' has the formula:  $R^2_{3-h} R^3_h SiO_{1/2}$ , wherein each  $R^2$  and  $R^3$  are independently monovalent hydrocarbon radicals having from one to forty carbon atoms, and the subscript h is 1, 2, or 3; D has the formula:  $R^4_2 SiO_{2/2}$ , wherein each  $R^4$  is independently a monovalent hydrocarbon radical having from one to forty carbon atoms; D' has the formula:  $R^5_{2-i} R^6_i SiO_{2/2}$ , wherein each of  $R^5$  and  $R^6$  is independently a monovalent hydrocarbon radical having from one to forty carbon atoms, and the subscript i is 1 or 2; T has the formula:  $R^7 SiO_{3/2}$ , wherein each  $R^7$  is a monovalent hydrocarbon radical having from one to forty carbon atoms; T' has the formula:  $R^8 SiO_{3/2}$ , wherein  $R^8$  is a monovalent hydrocarbon radical having from one to forty carbon atoms; and Q has the formula:  $SiO_{4/2}$ ,

or an ionic or nonionic siloxane ~~alkoxide~~ alkoxyate of the formula:



wherein each of  $R^{9-17}$  are independently a monovalent hydrocarbonyl radical,  $R^{18}$  is of the general formula:  $R^{19}-Z-(C_m H_{(2m-1)} R^{20} O)_j (C_n H_{2n} O)_k R^{21}$ , m and n are integers greater than or equal to 0; j and k are integers greater than or equal to 0, subject to the proviso that the sum of j+k is greater than or equal to 1; Z is H-, -O-, -S-, -SH-, -CO-, -NH-, or -NH<sub>2</sub>-;  $R^{19}$  is a divalent hydrocarbylene radical,  $R^{20}$  and  $R^{21}$  are independently hydrogen, alkyl, hydroxyalkyl, amino, amide, amineoxide, cyano, isocyano, aryl, arylene, carboxy, alkoxy,

Docket No. 08CS5966-2

Sub  
C1

halogen, haloalkyl, ~~haloalkoxy~~ haloalkoxy, sulfo, sulfamo, phosphono, salts thereof, or a combination comprising at least one of the foregoing; and wherein x and y are integers greater than or equal to 0, subject to the proviso that  $x + y$  is greater than or equal to 1.

19. (Canceled)

B2  
contd

20. (Previously Amended) The article of Claim 18, wherein the plastic substrate comprises polycarbonate, cellulose esters, polystyrene, polyvinyl acetate, polyolefins, or polyester.

21. to 30. (Canceled)

31. (Previously added) The coating composition according to Claim 3, wherein the silicone compound is present in the coating composition at about 0.1 to about 20 parts by weight and the water dispersible polyurethane polymer is present at about 5 to about 50 parts by weight based on 100 parts by weight total of silicone compound, water dispersible polyurethane, and the aqueous solvent.

Docket No. 08CS5966-2

Sub  
017

32. (New) The coating composition according to Claim 3, wherein the silicone compound is poly[dimethylsiloxane-co-methyl(3-hydroxypropyl)siloxane]-graft-poly(ethylene glycol) methyl ether; poly[dimethylsiloxane-co-[3-[2-(2-hydroxyethoxy)ethoxy]propyl]methylsiloxane; poly[dimethylsiloxane-co-(3-aminopropyl)methylsiloxane]; poly[dimethylsiloxane-co-methyl(3-hydroxypropyl)siloxane]-graft poly(ethylene/propylene glycol) methyl ether; poly[dimethylsiloxane-co-methyl(3-hydroxypropyl)siloxane]-graft-tetakis(1,2-butylene glycol); poly(dimethylsiloxane-co-alkylmethylsiloxane); poly[dimethylsiloxane-co-methyl(stearoyloxyalkyl)siloxane]; poly[dimethylsiloxane-co-methyl(3-hydroxypropyl)siloxane]-graft-poly(ethylene/propylene glycol); poly[dimethylsiloxane-co-methyl(3-hydroxypropyl)siloxane]-graft-poly(ethylene glycol) [3-(trimethylammonio)propyl chloride; poly[dimethylsiloxane-co-methyl(3-hydroxypropyl)siloxane]-graft-poly(ethylene glycol) 3-aminopropyl ether; poly[dimethylsiloxane-co-methyl(3,3,3-trifluoropropyl)siloxane]; poly(dimethylsiloxane bis[[3-[(2-aminoethyl)amino]propyl]dimethoxysilyl] ether; poly(dimethylsiloxane) ethoxylate/propoxylated; or a combination comprising at least one of the foregoing silicone compounds.

B2  
contd

Docket No. 08CS5966-2

Sub  
a/c

33. (New) The coating composition according to Claim 18, wherein the silicone compound is poly[dimethylsiloxane-co-methyl(3-hydroxypropyl)siloxane]-graft-poly(ethylene glycol) methyl ether; poly[dimethylsiloxane-co-[3-[2-(2-hydroxyethoxy)ethoxy]propyl]methylsiloxane; poly[dimethylsiloxane-co-(3-aminopropyl)methylsiloxane]; poly[dimethylsiloxane-co-methyl(3-hydroxypropyl)siloxane]-graft poly(ethylene/propylene glycol) methyl ether; poly[dimethylsiloxane-co-methyl(3-hydroxypropyl)siloxane]-graft-tetrakis(1,2-butylene glycol); poly(dimethylsiloxane-co-alkylmethylsiloxane); poly[dimethylsiloxane-co-methyl(stearoyloxyalkyl)siloxane]; poly[dimethylsiloxane-co-methyl(3-hydroxypropyl)siloxane]-graft-poly(ethylene/propylene glycol); poly[dimethylsiloxane-co-methyl(3-hydroxypropyl)siloxane]-graft-poly(ethylene glycol) [3-(trimethylammonio)propyl chloride; poly[dimethylsiloxane-co-methyl(3-hydroxypropyl)siloxane]-graft-poly(ethylene glycol) 3-aminopropyl ether; poly[dimethylsiloxane-co-methyl(3,3,3-trifluoropropyl)siloxane]; poly(dimethylsiloxane bis[[3-[(2-aminoethyl)amino]propyl]dimethoxysilyl] ether; poly(dimethylsiloxane) ethoxylate/propoxylated; or a combination comprising at least one of the foregoing silicone compounds.

B2  
entitled